36AM3B

Half-Wave Vacuum Rectifier

7-PIN MINIATURE TYPE
With Heater Having Controlled Warm-Up Time

GENERAL DATA

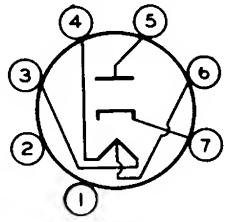
Electrical:

Heater[a], for Unipotential Cathode:		
Voltage (AC or DC):		
Entire heater (Pins 3 and 4)	36	volts
Tap-section (Pins 3 and 6)	32	volts
Current:		
Tap-section (Pins 3 and 6)	0.1 ± 6%	amp
Warm-up time (Average)	20	sec

Mechanical:

Operating Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See *General Section*
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW	5BQ

Pin 1 - No Connection
Pin 2 - No Connection
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Heater Tap
Pin 7 - Cathode

HALF-WAVE RECTIFIER

Maximum Ratings, *Design-Maximum Values:*

PEAK INVERSE PLATE VOLTAGE	365	max.	volts
PEAK PLATE CURRENT	530	max.	ma
DC OUTPUT CURRENT	82	max.	ma
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	350[b]	max.	volts
Heater positive with respect to cathode	200[c]	max.	volts

Typical Operation:

In accompanying typical half-wave circuit with capacitor-input filter

AC Plate Supply Voltage (RMS)	120	volts
Filter-Input Capacitor	40	μf
Total Effective Plate Supply Resistance	[a]	
DC Output Current	75	ma
DC Output Voltage at Input to Filter (Approx.)	118	volts

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Characteristics:

Tube-Voltage Drop for plate ma. = 150 . . . . 16 volts

[a] The *heater* of the 36AM3B is designed so that the heater section between pins 4 and 6 is used as a limiting resistance in the rectifier plate circuit (See accompanying *Typical Half-Wave Circuit*). This type is *not* designed for use with a panel lamp where the heater section between pins 4 and 6 is used as a panel-lamp shunt.

[b] The DC component must not exceed 350 volts.

[c] The DC component must not exceed 100 volts.

TYPICAL HALF-WAVE CIRCUIT